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# **CHAPTER 1**

## **Preface**

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	<b>Table of Content</b>
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## Preface

<b>Table of Content</b> .....	<b>1-2</b>
<b>Regulations Information</b> .....	<b>1-5</b>
FCC-B Radio Frequency Interference Statement .....	1-5
FCC Conditions .....	1-6
CE Conformity .....	1-6
<b>Safety Instructions</b> .....	<b>1-7</b>
<b>Safety Guideline for Using Lithium Battery</b> .....	<b>1-11</b>
<b>WEEE Statement</b> .....	<b>1-15</b>
<b>Trademarks</b> .....	<b>1-22</b>
<b>Reversion History</b> .....	<b>1-22</b>

## Introductions

<b>Manual Map</b> .....	<b>2-2</b>
<b>Unpacking</b> .....	<b>2-3</b>
<b>Specification</b> .....	<b>2-4</b>
<b>Product Overview</b> .....	<b>2-8</b>

## Getting Started

<b>Power Management .....</b>	<b>3-2</b>
Battery Power .....	3-2
AC Power .....	3-3
Power On the Tablet PC .....	3-5
Power Management in Windows OS .....	3-6
Energy Saving Tips.....	3-8
<b>Basic Operations .....</b>	<b>3-9</b>
Safety and Comfort Tips .....	3-9
Having a Good Work Habit.....	3-9
Amusing Features .....	3-10
Rotating the Display .....	3-13
Using the Quick Launch Buttons.....	3-14
Using 3G Function (Optionally Supported) .....	3-16
<b>Connecting the External Devices .....</b>	<b>3-17</b>
Connecting the Communication Devices .....	3-17
Connecting the Peripheral Devices .....	3-19

## Regulations Information

### FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiates radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

#### **NOTE**

- ♦ The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- ♦ Shield interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

## FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

## CE Conformity



This device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.

## Safety Instructions

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Read the safety instructions carefully and thoroughly.

All cautions and warnings on the equipment or user's manual should be noted.

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Keep the User's Guide that comes with the package for future reference.

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Keep this equipment away from humidity and high temperature.

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Lay this equipment on a stable surface before setting it up.

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The openings on the enclosure are used for air convection and to prevent the equipment from overheating. Do not cover the openings.

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Do not leave the equipment in an unconditioned environment with a storage temperature above 60°C (140°F) or below 0°C (32°F), which may damage the equipment.

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- ♦ Make sure the power voltage is within safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet.
- ♦ Always unplug the AC power cord before installing any add-on card or module to the equipment.
- ♦ Always disconnect the AC power cord or uninstall the battery pack or switch off the wall socket if the equipment would be left unused for a certain time to achieve zero energy consumption.



Never pour liquid into the opening that could damage the equipment or cause an electrical shock.



Place the power cord in a way that people are unlikely to step on it. Do not place anything on top of the power cord.



Always keep the strong magnetic or electrical objects away from the equipment.



When installing the coaxial cable to the TV Tuner, it is necessary to ensure that the metal shield is reliably connected to the protective earthing system of the building.

Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.



- ♦ To prevent explosion caused by improper battery replacement, use the same or equivalent type of battery recommended by the manufacturer only.
- ♦ Always keep the battery in a safe place.



If any of the following situations arises, get the equipment checked by a service personnel:

- ♦ The power cord or plug is damaged.
- ♦ Liquid has penetrated into the equipment.
- ♦ The equipment has been exposed to moisture.
- ♦ The equipment has not worked well or you can not get it work according to User's Manual.
- ♦ The equipment was dropped and damaged.
- ♦ The equipment has obvious signs of breakage.



**Green Product Features**

- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

**Environmental Policy**

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.



廢電池請回收

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

## Safety Guideline for Using Lithium Battery

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(English) **CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

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(French) **(Français) ATTENTION:** Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usages conformément aux instructions du fabricant.

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(German) **(Deutsch) VORSICHT:** Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

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(Spanish) **(Español) PRECAUCIÓN:** Peligro de explosión si la batería es reemplazada incorrectamente. Cámbiela solo por la misma o un tipo equivalente recomendado por el fabricante. Descarte usar baterías usadas de acuerdo con las instrucciones del fabricante.

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(Italian) **(Italiano) ATTENZIONE:** Pericolo di esplosione della batteria se sostituita in modo non corretto. Sostituire solo con la stesso tipo o con uno equivalente come indicato nel manuale del produttore. Smaltire le batterie usate come da istruzioni del produttore.

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(Russian) **(Русский) Внимание:** Существует опасность взрыва батареи в случае неправильной замены. Для замены всегда используйте такую же или эквивалентную, рекомендованную производителем оборудования. Следуйте инструкциям производителя при утилизации использованных батарей.

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(Turkish) **(Türkçe) UYARI:** Pili yanlış yerleştirilirse patlayabilir. Aynı ya da muadili bir pille değiştiriniz. Kullanılmış pilleri

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üreticinin talimatlarına göre degerlendiriniz.

(Greek) (Ελληνικά) ΠΡΟΣΟΧΗ: Κίνδυνος έκρηξης εάν η μπαταρία τοποθετηθεί λανθασμένα. Να αντικαθιστάτε μόνο με τον ίδιο ή αντίστοιχο τύπο με αυτό που συνιστά ο κατασκευαστής του εξοπλισμού. Να απορρίπτετε τις χρησιμοποιημένες μπαταρίες ως απορρίμματα σύμφωνα με τις οδηγίες του κατασκευαστή.

(Polish) (Polski) OSTRZEŻENIE: Nieprawidłowa wymiana może spowodować eksplozję baterii. Zamianę można wykonać wyłącznie na baterię tego samego lub równoważnego typu zalecaną przez producenta urządzenia. Zużyte baterie można wyrzucać zgodnie z instrukcjami producenta.

(Hungarian) (Magyar) VIGYÁZAT: A nem megfelelő akkumul tor haszn láta robban svesz lyes. Kizárólag ugyanolyan, vagy a berendezés gyártója által ajánlott, egyenértékű típust használjon. Az elhasznált akkumulátorokat a gyártó utasításának megfelelően ártalmatlanítsák.

(Czech) (Čeština) UPOZORNĚNÍ: Nebezpečí výbuchu při chybné výměně baterie. Nahradte pouze stejným nebo ekvivalentním typem doporučeným výrobcem zařízení. Použité baterie zlikvidujte podle pokynů výrobce

(Traditional Chinese) (繁體中文) 注意: 若電池未正確更換, 可能會爆炸。請用原廠建議之同款或同等級的電池來更換。請依原廠指示處理廢棄電池。

(Simplified Chinese) (简体中文) 注意: 若电池未正确更换, 可能会爆炸。请用原厂建议之同款或同等级的电池来更换。请依原厂指示处理废弃电池。

(Japanese) (日本語) 警告: バッテリーの取り扱いを誤ると、液漏れや破裂などにより生命や財産に重大な影響を及ぼす恐れがあります。指定された型番以外のバッテリーは使用しないでください。バッテリーを廃棄する場合は、各自治体の規則に従って適切に処理して下さい。

(Korean) (한국어) 주의: 배터리를 올바르게 교체하지 않으면 폭발할 위험이 있습니다. 타입이 장치 제조업체에서

권장하는 것과 동일하거나 동등한 배터리로만 교체하십시오. 사용한 배터리는 제조업체의 지침에 따라 폐기하십시오.

(Vietnamese) (Teng Viet) LƯU Ý: Thay thế pin không tương thích có thể dẫn đến nguy cơ bị nổ. Chỉ thay thế bằng pin cùng loại hoặc loại tương ứng khuyến dùng bởi nhà sản xuất thiết bị. Vứt bỏ pin đã sử dụng theo hướng dẫn của nhà sản xuất.

(Thai) (ไทย) ข้อควรระวัง: ถ้าใส่แบตเตอรี่อย่างไม่ถูกต้อง อาจมีอันตรายจากการระเบิดขึ้นได้ ใช้เฉพาะแบตเตอรี่ชนิดเดียวกัน หรือเทียบเท่า ที่แนะนำโดยผู้ผลิตอุปกรณ์เท่านั้น ทั้งแบตเตอรี่ที่ใช้แล้วตามคำแนะนำของผู้ผลิต

(Indonesian) (Bahasa Indonesia) PERHATIAN: Bahaya ledakan dapat terjadi jika salah memasang baterai. Ganti baterai hanya dengan jenis yang sama atau setara sesuai rekomendasi pabrik peralatan tersebut. Buang baterai bekas sesuai petunjuk pabrik

(Serbian) (Srpski) OPREZ: Ukoliko baterija nije ispravno postavljena, postoji opasnost od eksplozije. Zamenu izvršite koristeći isključivo istu ili ekvivalentnu bateriju koju preporučuje proizvođač opreme. Odbacite iskorišćene baterije u skladu sa uputstvima proizvođača.

(Netherlands) (Nederlands) LET OP: Er is explosiegevaar als de batterij niet goed geplaatst wordt. Uitsluitend te vervangen door een batterij van hetzelfde of een gelijkwaardig type, zoals aanbevolen door de fabrikant. Gooi batterijen weg volgens de plaatselijke instructies.

(Romanian) (Română) ATENȚIE: Pericol de explozie dacă bateria este înlocuită incorect. Înlocuiți doar cu același tip sau echivalent recomandat de fabricantul echipamentului. Evacuați bateriile folosite conform instrucțiunilor fabricantului.

(Portuguese) (Português) ADVERTÊNCIA: Perigo de explosão se a bateria é substituída incorrectamente. Substitua somente com o mesmo tipo ou equivalente recomendado por o fabricante do seu equipamento. Descarte as baterias

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utilizadas de acordo com as instruções do fabricante.

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(Swedish) (Svenska) VARNING: Explosionsfara vid felaktigt batteritype. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruction.

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(Finnish) (Suomi) VAROITUS: Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

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(Slovak) (Slovenčina) UPOZORNENIE: V prípade nesprávnej výmeny batérie existuje nebezpečenstvo výbuchu. Vymeňte iba za rovnakú batériu alebo za rovnocenný typ batérie, ktorý odporúča výrobca zariadenia. Batérie zneškodnite podľa pokynov výrobcu.

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(Slovenian) (Slovenščina) POZOR: V primeru nepravilne zamenjave baterije obstaja nevarnost njene eksplozije. Baterijo zamenjajte le z enako ali ekvivalentno vrsto, ki jo priporoča proizvajalec. Odpadne baterije odstranite skladno z navodili proizvajalca.

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(Danish) (Dansk) ADVARSEL! Lithiumbatteri --- Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af same fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

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(Norwegian) (Norsk) ADVARSEL: Eksplosjonsfare ved feilaktig skifte av batteri. Benytt same batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

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(Bulgarian) (български) ВНИМАНИЕ: Опасност от експлозия ако батерията бъде неправилно поставена. Поставете батерия от същия вид или еквивалентна батерия, която се препоръчва от производителя. Изхвърлете използваните батерии като спазвате указанията на производителя.

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(Croatian) (Hrvatski) OPREZ: Opasnost od eksplozije ako se baterija zamijeni neprikladnom. Zamijenite je samo jednakom ili nadomjesnom vrstom prema preporuci proizvođača. Istrošene baterije zbrinite u skladu s uputama

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tootjate.

(Estonian) (Eesti) ETTEVAATUST! Plahvatusoht, kui aku on valesti paigaldatud. Asendage ainult sama või tootja poolt soovitatud võrdväärse akuga. Hävitage kasutatud aku vastavalt tootja juhiste.

(Persian) (فارسی)

خطار: در صورت عدم نصب و جا گذاری صحیح باتری، احتمال انفجار باتری وجود دارد. در صورت تعویض باتری، تنها از باتریهای پیشنهادی شرکت تولید کننده استفاده نمایید. از دور انداختن باتری خودداری کنید و بر طبق راهنمایی شرکت تولید کننده عمل نمایید.

(Arabic) (العربية)

تحذیر: خطر، قد تتعرض البطارية للانفجار والتلف إذا تم استبدالها بنوع غير أصلي. استبدل فقط بنفس أو نوع مكافئ أوصى به من قبل منتج الجهاز. تجاهل البطاريات المستعملة وفقا لإرشادات الشركة المصنعة.



## WEEE Statement

(English) Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

(French) (Français) Au sujet de la directive européenne (EU) relative aux déchets des équipement électriques et électroniques, directive 2002/96/EC, prenant effet le 13 août 2005, que les produits électriques et électroniques ne peuvent être déposés dans les décharges ou tout simplement mis à la poubelle. Les fabricants de ces équipements seront obligés de récupérer certains produits en fin de vie.

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(German) ([Deutsch](#)) Gemäß der Richtlinie 2002/96/EG über Elektro- und Elektronik-Altgeräte dürfen Elektro- und Elektronik-Altgeräte nicht mehr als kommunale Abfälle entsorgt werden, die sich auf 13. August, 2005 wirken. Und der Hersteller von bedeckt Elektronik-Altgeräte gesetzlich zur gebrachten Produkte am Ende seines Baruchbarkeitsdauer zurückzunehmen.

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(Spanish) ([Español](#)) Bajo la directiva 2002/96/EC de la Unión Europea en materia de desechos y/o equipos electrónicos, con fecha de rigor desde el 13 de agosto de 2005, los productos clasificados como "eléctricos y equipos electrónicos" no pueden ser depositados en los contenedores habituales de su municipio, los fabricantes de equipos electrónicos, están obligados a hacerse cargo de dichos productos al termino de su período de vida.

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(Italian) ([Italiano](#)) In base alla Direttiva dell'Unione Europea (EU) sullo Smaltimento dei Materiali Elettrici ed Elettronici, Direttiva 2002/96/EC in vigore dal 13 Agosto 2005, prodotti appartenenti alla categoria dei Materiali Elettrici ed Elettronici non possono più essere eliminati come rifiuti municipali: i produttori di detti materiali saranno obbligati a ritirare ogni prodotto alla fine del suo ciclo di vita.

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(Russian) ([Русский](#)) В соответствии с директивой Европейского Союза (ЕС) по предотвращению загрязнения окружающей среды использованным электрическим и электронным оборудованием (директива WEEE 2002/96/EC), вступающей в силу 13 августа 2005 года, изделия, относящиеся к электрическому и электронному оборудованию, не могут рассматриваться как бытовой мусор, поэтому производители вышеперечисленного электронного оборудования обязаны принимать его для переработки по окончании срока службы.

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(Turkish) ([Türkçe](#)) Avrupa Birliği (AB) Kararnamesi Elektrik ve Elektronik Malzeme Atığı, 2002/96/EC Kararnamesi altında 13 Ağustos 2005 tarihinden itibaren geçerli olmak üzere, elektrikli ve elektronik malzemeler diğer atıklar gibi çöpe atılamayacak ve bu elektronik cihazların üreticileri, cihazların kullanım süreleri bittikten sonra ürünleri geri toplamakla yükümlü olacaktır.

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(Greek) (Ελληνικά) Σύμφωνα με την Οδηγία 2002/96/ΕΚ της Ευρωπαϊκής Ένωσης («ΕΕ») περί Απόρριψης Ηλεκτρικού και Ηλεκτρονικού Εξοπλισμού (WEEE), η οποία λαμβάνει ισχύ στις 13 Αυγούστου 2005, τα προϊόντα «ηλεκτρικού και ηλεκτρονικού εξοπλισμού» δεν είναι δυνατόν να απορριφθούν πλέον ως κοινά απορρίμματα και οι κατασκευαστές καλυπτούμενου ηλεκτρονικού εξοπλισμού είναι υποχρεωμένοι να πάρουν πίσω αυτά τα προϊόντα στο τέλος της ωφέλιμης ζωής τους.

(Polish) (Polski) Zgodnie z Dyrektywą Unii Europejskiej ("UE") dotyczącą odpadów produktów elektrycznych i elektronicznych (Dyrektywa 2002/96/EC), która wchodzi w życie 13 sierpnia 2005, tzw. "produkty oraz wyposażenie elektryczne i elektroniczne" nie mogą być traktowane jako śmieci komunalne, tak więc producenci tych produktów będą zobowiązani do odbierania ich w momencie gdy produkt jest wycofywany z użycia.

(Hungarian) (Magyar) Az Európai Unió („EU”) 2005. augusztus 13-án hatályba lépő, az elektromos és elektronikus berendezések hulladékaíró szóló 2002/96/EK irányelve szerint az elektromos és elektronikus berendezések többé nem kezelhetők lakossági hulladékként, és az ilyen elektronikus berendezések gyártói köteleessé válnak az ilyen termékek visszavételére azok hasznos élettartama végén.

(Czech) (Čeština) Podle směrnice Evropské unie ("EU") o likvidaci elektrických a elektronických výrobků 2002/96/EC platné od 13. srpna 2005 je zakázáno likvidovat "elektrické a elektronické výrobky" v běžném komunálním odpadu a výrobci elektronických výrobků, na které se tato směrnice vztahuje, budou povinni odebrat takové výrobky zpět po skončení jejich životnosti.

(Traditional Chinese) (繁體中文) 歐盟已制訂有關廢電機電子設備法令，亦即自 2005 年 8 月 13 日生效的 2002/96/EC，明文規定「電機電子設備產品」不可再以都市廢棄物處理，且所有相關電子設備製造商，均須在產品使用壽命結束後進行回收。

(Simplified Chinese) (简体中文) 欧盟已制订有关废电机电子设备法令，亦即自 2005 年 8 月 13 日生效的 2002/96/EC，明



文規定「电机电子设备产品」不可再以都市废弃物处理，且所有相关电子设备制造商，均须在产品使用寿命结束后进行回收。

(Japanese) (日本語) 2005 年 8 月 13 日以降に EU 加盟国を流通する電気・電子製品には WEEE 指令によりゴミ箱に × 印のリサイクルマークの表示が義務づけられており、廃棄物として捨てることの禁止とリサイクルが義務づけられています。

(Korean) (한국어) 2005 년 8 월 13 일자로 시행된 폐전기전자제품에 대한 유입연함("EU") 지침, 지침 2002/96/EC 에 의거하여, "전기전자제품"은 일반 쓰레기로 폐기할 수 없으며 제품의 수명이 다하면 해당 전자제품의 제조업체가 이러한 제품을 회수할 책임이 있습니다.

(Vietnamese) (Tiếng Việt) Theo Hướng dẫn của Liên minh Châu Âu ("EU") về Thiết bị điện & điện tử đã qua sử dụng, Hướng dẫn 2002/96/EC, vốn đã có hiệu lực vào ngày 13/8/2005, các sản phẩm thuộc "thiết bị điện và điện tử" sẽ không còn được vứt bỏ như là rác thải đồ thị nữa và các nhà sản xuất thiết bị điện tử tuân thủ hướng dẫn sẽ phải thu hồi các sản phẩm này vào cuối vòng đời.

(Thai) (ไทย) ภายใต้ข้อกำหนดของสหภาพยุโรป ("EU") เกี่ยวกับของเสียจากอุปกรณ์ไฟฟ้า และอิเล็กทรอนิกส์ เลขที่ 2002/96/EC ซึ่งมีผลบังคับใช้ตั้งแต่วันที่ 13 สิงหาคม 2005 ผู้ใช้ไม่สามารถทิ้งผลิตภัณฑ์ที่เป็น "อุปกรณ์ไฟฟ้าและอิเล็กทรอนิกส์" ปะปนกับของเสียทั่วไปของชุมชนได้อีกต่อไป และผู้ผลิตอุปกรณ์อิเล็กทรอนิกส์ดังกล่าวจะถูกบังคับให้นำผลิตภัณฑ์ดังกล่าวกลับคืนเมื่อสิ้นสุดอายุการใช้งานของผลิตภัณฑ์

(Indonesian) (Bahasa Indonesia) Sesuai dengan Peraturan Uni Eropa ("UE") perihal WEEE (Limbah Peralatan Listrik dan Elektronik), Directive 2002/96/EC, yang berlaku sejak 13, 2005, produk "peralatan listrik dan elektronik" tidak lagi dapat dibuang sebagai sampah umum dan pabrik peralatan elektronik diwajibkan untuk mengambil kembali produk tersebut pada saat masa pakainya habis.

(Serbian) (Srpski) Po Direktivi Evropske unije ("EU") o odbačenju elektronskih i električnih opremi, Direktiva 2002/96/EC, koja stupa na snagu od 13. Avgusta 2005, proizvodi koji spadaju pod "elektronsku i električnu opremu" ne mogu više biti

odbačeni kao običan otpad i proizvođači ove opreme biće prinuđeni da uzmu natrag ove proizvode na kraju njihovog uobičajenog veka trajanja.

(Netherlands) (Nederlands) De richtlijn van de Europese Unie (EU) met betrekking tot Vervuiling van Electrische en Electronische producten (2002/96/EC), die op 13 Augustus 2005 in zal gaan kunnen niet meer beschouwd worden als vervuiling. Fabrikanten van dit soort producten worden verplicht om producten retour te nemen aan het eind van hun levenscyclus..

(Romanian) (Română) În baza Directivei Uniunii Europene ("UE") privind Evacuarea Echipamentului Electric și Electronic, Directiva 2002/96/EC, care intră în vigoare pe 13 august, 2005, produsele din categoria "echipament electric și electronic" nu mai pot fi evacuate ca deșeuri municipale, iar fabricanții echipamentului electronic vizat vor fi obligați să primească înapoi produsele respective la sfârșitul duratei lor de utilizare.

(Portuguese) (Português) De acordo com a Directiva 2002/96/EC de Resíduos de Equipamentos Eléctricos e Electrónicos da União Europeia (UE), efectiva desde o 13 de Agosto do ano 2005, os produtos de "equipamento eléctrico e electrónico" não podem ser descartados como resíduo municipal e os fabricantes do equipamento electrónico sujeitos a esta legislação estarão obrigados a recolher estes produtos ao finalizar sua vida útil.

(Swedish) (Svenska) Under Europeiska unionens ("EU") Weee-direktiv (Waste Electrical and Electronic Equipment), Direktiv 2002/96/EC, vilket trädde i kraft 13 augusti, 2005, kan inte produkter från "elektriska och elektroniska utrustningar" kastas i den vanliga hushållssoporna längre och tillverkare av inbyggd elektronisk utrustning kommer att tvingas att ta tillbaka sådana produkter när de är förbrukade.

(Finnish) (Suomi) Euroopan unionin (EU) 13.8.2005 voimaan tulleen sähkö- ja elektroniikkalaiteromua koskevan direktiivin 2002/96/EY mukaisesti "sähkö- ja elektroniikkalaitteita" ei saa enää hävittää talousjätteiden mukana. Direktiivin alaisen sähkö- tai elektroniikkalaitteen valmistajan on otettava laitteet takaisin niiden käyttöiän päättyessä.

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(Slovak) (Slovenčina) Na základe smernice Európskej únie („EU“) o elektrických a elektronických zariadeniach číslo 2002/96/ES, ktorá vstúpila do platnosti 13. augusta 2005, výrobky, ktorými sú „elektrické a elektronické zariadenia“ nesmú byť zneškodňované spolu s komunálnym odpadom a výrobcovia patričných elektronických zariadení sú povinní takéto výrobky na konci životnosti prevziať naspäť.

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(Slovenian) (Slovenščina) Skladno z določili direktive Evropske unije ("EU") o odpadni električni in elektronski opremi, Direktiva 2002/96/ES, ki je veljavna od 13. avgusta, izdelkov "električne in elektronske opreme" ni dovoljeno odstranjevati kot običajne komunalne odpadke, proizvajalci zadevne elektronske opreme pa so zavezani, da tovrstne izdelke na koncu njihove življenjske dobe sprejmejo nazaj.

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(Danish) (Dansk) I henhold til direktiv fra den europæiske union (EU) vedrørende elektrisk og elektronisk affald, Direktiv 2002/96/EC, som træder i kraft den 13. august 2005, må produkter som "elektrisk og elektronisk udstyr" ikke mere bortskaffes som kommunalt affald. Producenter af det pågældende, elektroniske udstyr vil være forpligtet til at tage disse produkter tilbage ved afslutningen på produkternes levetid.

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(Norwegian) (Norsk) Under den europeiske unionens ("EU") direktiv om deponering av elektronisk og elektrisk utstyr, direktiv 2002/96/EC, som trer i effekt 13. august 2005, kan ikke produkter av "elektronisk og elektrisk utstyr" lenger deponeres som husholdningsavfall og fabrikantene av disse produktene er forpliktet å ta tilbake slike produkter ved slutten av produktets levetid.

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(Bulgarian) (Български) Според директивата на Европейския съюз относно отпадъците от електрическо и електронно оборудване, директива 2002/96/EC, важаща от 13 август, 2005 г., електрическо и електронно оборудване не може да се изхвърля заедно с битовите отпадъци и производителите на такова оборудване са задължени да приемат обратно съответните продукти в края на експлоатационния им период.

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(Croatian) (Hrvatski) U okviru Direktive Europske Unije ("EU") o Otpadnim električnim i elektroničkim uređajima, Direktiva

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2002/96/EC, koja je na snazi od 13. kolovoza 2005., "električni i elektronički uređaji" se ne smiju više bacati zajedno s kućnim otpadom i proizvođači su obvezni zbrinuti takve proizvode na kraju njihovog životnog vijeka.

(Estonian) (Eesti) Vastavalt Euroopa Liidu ("EL") direktiivile 2002/96/EÜ (elektri- ja elektroonikaseadmete jäätmete kohta), mis jõustus 13. augustil 2005, on keelatud kodumajapidamiste "elektri- ja elektroonikaseadmete" jäätmete hävitamine koos majapidamisjäätmatega, ja elektri- ja elektroonikaseadmete tootjad on kohustatud sellised tooted pärast nende kasutuselt kõrvaldamist tagasi võtma.

(Persian) (فارسی)

اتحادیه اروپا) که از تاریخ 13 اگوست سال 2005 میلادی قابل اجراست ، کلیه شرکت های 2002/96/EC بر طبق قانون دفع زباله های الکتریکی و الکترونیکی (بند تولید کننده موظف به جمع آوری زباله محصولات خود پس از پایان دوره مصرف می باشند.

(Arabic) (العربية)

في إطار اتفاقية الاتحاد الأوروبي ("الإتحاد الأوروبي") التوجيه بشأن نفايات المعدات و الأجهزة الكهربائية والإلكترونية، توجيه 2002/96/EC للمجموعة الأوروبية، الذي أصبح ساري المفعول في 13 أغسطس/آب، 2005، ان منتجات "أجهزة كهربائية والإلكترونية" لا يمكن التخلص منها بوصفها نفايات، ومنجمو المعدات الالكترونية سيكون لزاما عليهم استرداد مثل هذه المنتجات في نهاية مدة صلاحيتها.

## Trademarks

- All trademarks are the properties of their respective owners.
- SRS Premium Sound, SRS and the symbol are trademarks of SRS Labs ,Inc.
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## Revision History

Version	Revision History	Date
1.0	First Released	01, 2011

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# **CHAPTER 2**

## **Introductions**

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Congratulations on becoming an user of this product, the finely designed tablet PC. This brand-new exquisite tablet PC will give you a delightful and professional experience in using it. We are proud to tell our users that this product is thoroughly tested and certified by our reputation for unsurpassed dependability and customer satisfaction.

## Manual Map

This User's Manual provides instructions and illustrations on how to operate this tablet PC. It is recommended to read this manual carefully before using this tablet PC.

**Chapter 1, Preface**, gives users the basic safety information and caution that is interrelated to using this tablet PC. It is recommended to read these information or caution when using this tablet PC for the first time.

**Chapter 2, Introductions**, includes the descriptions of all the accessories of this tablet PC. It is recommended to check out that if you have all the accessories included when you open the packing box. If any of these accessories is damaged or missing, please contact the vendor where you purchased this product. Also, this chapter provides the specification of this tablet PC, and introduces the function buttons, quick launch buttons, connectors, LEDs and externals of this product.

**Chapter 3, Getting Started**, gives the basic operation instructions on using this tablet PC. Beside, the steps of connecting the AC power; and the procedures of connecting the various external devices, communication devices, and so on, are also provided to help users getting familiar with this product.

## Unpacking

First, unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future. The package should contain the following items:



Tablet PC



Quick Start Manual



AC/DC adapter and AC power cord



Carry bag (optional)



All-in-one application disk, containing the full version of user's manual, drivers, utilities, and optional recovery function, etc..

### INFO

*These accessories listed above may change without notice.*



## Specification

### Physical Characteristic

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Dimension	274 (W) x 173 (D) x 18.5 (H) mm
Weight	847g with battery

### CPU

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Processor Type	Intel Atom Z530 1.6GHz
Support Processor	Intel Menlow
Process	45nm
L2 Cache	512KB
FSB Speed	533MHz
Special Notification	The actual processor preinstalled in this product depends on the model you purchased. Please contact the local dealer for detailed information.

### Core Chips

---

Core Chip	Intel Poulsbo
Special Notification	The actual core chips preinstalled in this product depends on the model you purchased. Please contact the local dealer for detailed information.



## Memory

Technology	DDR2 800 Mhz
Memory	DDR2 SO-DIMM X 1 slot 1GB DDR2 SDRAM
Maximum	up to 2GB (2GB DDR2 SO-DIMM x 1) (optional)

## Storage (Items listed here may vary depending on the model users purchased)

SSD (Solid-State Disk)	32GB
Special Notification	The actual SSD preinstalled in this product depends on the model you purchased, and may vary without notice.

## Power

AC/DC Adapter	40W, 19V Input: 100-240V~ 1.2A-0.6A 50-60Hz Output: 19V  2.1A 
Battery Type	2 cells
RTC Battery	Yes

## I/O Port

USB	x 1 (USB version 2.0)
Headphone out (on docking)	x 1
Mini HDMI	x 1

Expansion Docking Port	x 1
Internal Microphone	x 1 (on docking)
Card Reader	x 1 (SD/ MMC)
The supported memory cards may vary without notice.	

### **Communication Port** (Items listed here may vary without notice)

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Wireless LAN	Supported
Bluetooth	Supported
3G	Optionally Supported

### **Audio**

---

Sound Controller	Realtek® ALC 888VC2
Internal Speaker	2 speakers with housing
Sound Volume	Adjust by volume button, K/B hot-key & SW

### **Video (optional)**

---

Graphics	UMA
Dual View Function	External display devices will be auto detected when connected.
External Display Output	Supported

### **Display**

---

LCD Type	10.1" LED panel
LCD Resolution	1024 x 600

Multi Touch	Supported
Brightness	Brightness controlled by K/B hot-keys

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**WebCam**

CMOS (optional)	Supported
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**Software & BIOS**

USB Flash Boot	Yes, USB floppy boot up DOS only
BIOS	Fast Boot Support --- Yes

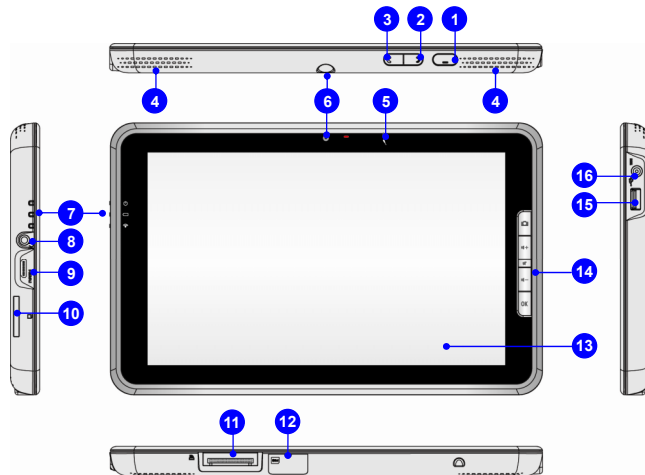
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**Others**

G-Sensor	Supported
Compliance	WHQL

## Product Overview

This section provides the description of basic aspects of this tablet PC. It will help you to know more about the appearance of this device before using it. Please be aware that the device shown in this section may vary from the actual one that users purchased.



### INFO

The figures show here are  
for reference only.

**1. Power Button**

Press the power button to turn this product ON and OFF.

**2. WLAN or 3G Function Button (Optionally Supported)**

Press this button to turn the Wireless LAN or 3G function on or off recurrently. For detailed instructions of using WLAN or 3G Function, please refer to the chapter 3 of this manual.

**3. Bluetooth Function Button (Optionally Supported)**

Press this button to turn the Bluetooth function on or off recurrently. For detailed instructions of using Bluetooth Function, please refer to the chapter 3 of this manual.

**4. Stereo Speakers**

Give high quality sound blaster with stereo system and Hi-Fi function supported.

**5. Internal Microphone**

This is the built-in microphone and its function is the same with microphone.

**6. Front Webcam/ Rear Webcam**

This built-in Front/ Rear Webcam can be used for picture taking, video recoding or conferencing, and any other interactive applications.

## 7. Status LEDs

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### Power LED

- Glowing blue when this device is powered on.
  - LED goes off when this device is powered off.
- 



### Battery Status

- Glowing green when the battery is being charged.
  - Glowing amber when the battery is in low battery status.
  - Blinking amber if the battery fails and it is recommended to replace a new battery. Consult the local dealer for purchasing an equivalent type of battery recommended by the manufacturer.
  - Battery LED goes out when it is fully charged or when the AC/DC adapter is disconnected.
- 



### Bluetooth/ Wireless LAN / 3G (Optionally Supported)

- This LED indicator glows blue when **Bluetooth** function is enabled.
  - This LED indicator glows blue when **Wireless LAN** function is enabled.
  - This LED indicator glows blue when **3G** function is enabled.
  - LED indicator goes out when all functions are disabled.
  - **Note:** Functions listed here may be optional supported depending on the model users purchased.
  - **Warning:** For flight safety consideration, make sure this LED indicator goes out when you are in flight.
  - Contact the local distributor for further information if necessary.
-

#### 8. Headphone Connector

Used for connecting the speakers or headphones.

#### 9. Mini HDMI Connector

HDMI (High Definition Multimedia Interface) is a new interface standard for PCs, displays and consumer electronics devices that supports standard, enhanced and high-definition video, plus multi-channel digital audio on a single cable.

#### 10. Card Reader

The built-in card reader may support two types of memory card, which are MMC (Multi-Media Card) and SD (Secure Digital). Contact the local dealer for further and correct information and be noted that the supported memory cards may vary without notice.

**Note that there is a dummy card attached to this slot to protect the empty slot. Do not mislay the dummy card when it is taken out, and always leave the dummy card inserted when not using this slot.**

#### 11. Docking Station Connecting Port

This port is provided to connect a Docking Station (optional), which gives an additional flexibility and expandability to this tablet PC. Users are allowed to connect a compliant Docking Station to this port to obtain extra connecting interfaces. For detailed instructions of connecting and using the Docking Station, please refer to the chapter 3 of this manual.



### 12. SIM Card Slot (Optionally Supported)

Insert the SIM card properly with correct orientation into the SIM card slot provided by this tablet PC for internet services. Contact your internet service provider for any internet connecting issue.

### 13. Multi Touch Display

This tablet PC is equipped with a user-friendly multi touch display which lets users use hands or finger gestures to interact with multi-media content, play games, read e-books, access documents, create special effects, manipulate art and photographs, and even surf on the internet, in a truly unique and compelling way.

### 14. Quick Launch Buttons

Use the quick launch buttons to activate the specific applications or tools.

With the help of these quick launch buttons, users will be able to do work more efficiently.



**Webcam**

- Press this button to turn the **Webcam** function on. Press again to turn it off.
- Long press this button for 3 seconds to enable or disable the G-sensor. With this function enabled, whenever the display is rotated, the screen will be rotated and expanded to fit the display automatically.
- Read the icon on behalf of the Webcam Status appearing on the display to learn the function status.



Volume Up

- Press the **Volume Up** or **Volume Down** button to decrease or increase the sound volume.



Volume Down

- Read the icon on behalf of the Sound Level Status appearing on the display to learn the function status.



Mute

- Press the **Mute** button to disable the sound volume. Press again to restore the sound volume to the previous sound level.
- Press and hold the **Mute** button for 3 seconds to bring up the tag of Windows Security. In this tag, users can lock the device for security concern, if necessary.
- Read the icon on behalf of the Mute Status appearing on the display to learn the function status.



- This button works the same as the Enter button on the keyboard.

## 15. USB Port

The USB 2.0 port allows you to connect USB-interface peripheral devices, such as mouse, keyboard, modem, portable hard disk module, printer and more.

## 16. Power Connector

Provided to connect the AC/DC adapter and supply AC power for this tablet PC.

---

# **CHAPTER 3**

## **Getting Started**

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## Power Management

### Battery Power

This tablet PC is equipped with a high-capacity Li-ion battery pack. The rechargeable Li-ion battery pack is an internal power source of this device.

However, the battery equipped is not replaceable by users, and may be damaged if users try to disassemble the product and the battery pack installed inside on their own.

Also, note that the limited warranty to the product may also lose its efficacy when this product is disassembled not by an authorized machinist.

Please follow your local laws and regulations to recycle the product.

### **Conserving Battery Power**

Efficient battery power is critical to maintain a normal operation. If the battery power is not managed well, the saved data and customized settings may be lost.

To optimize battery life and avoid a sudden power loss, read the tips below:

- Suspend system operation if the system will be idle for a while or shorten the suspend timer's time period.
- Turn off the system if you won't be using it for a period of time.
- Disable unnecessary settings or remove idle peripherals.
- Connect an AC/DC adapter to the system whenever possible.

### **Charging the Battery Pack**

The battery pack equipped is rechargeable, however please pay attention to the following tips before recharging the battery:

- ♦ Plug in an external AC/DC adapter.
- ♦ You can use the system, suspend system operation or shut down and turn off the system without interrupting the charging process.
- ♦ The battery pack installed inside the device uses Lithium-ion battery cells that have no "memory effect." It is unnecessary to discharge the battery before recharging. However, to optimize the life of battery, we suggest that consuming the battery power completely once a month is necessary.
- ♦ The actual charging time will be determined by the applications in use.

### **AC power**

It is strongly recommended to connect the AC/DC adapter to the tablet PC and use the AC power while using this tablet PC for the first time. When the AC power is connected, recharging the battery will start immediately.

*Note that the AC/DC adapter included in the package is approved for your tablet PC; using other adapter model may damage either the tablet PC or other devices attached to it.*

*Do not cover the AC/DC adapter since it may produce a certain heat while in use. Always be aware of heat coming from the AC/DC adapter in use.*

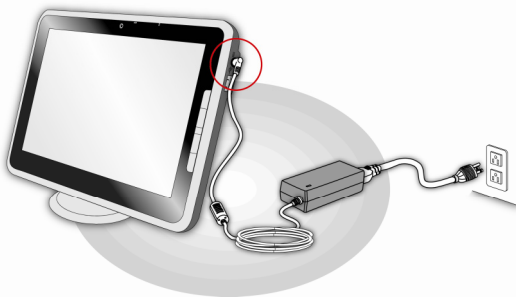
**Connecting the AC Power**

1. Unpack the package to find the AC/DC adapter and power cord.
2. Attach the power cord to the connector of the AC/DC adapter.
3. Plug the DC end of the adapter to the tablet PC, and the male end of the power cord to the electrical outlet.

**Disconnecting the AC Power**

When disconnecting the AC/DC adapter, you should:

4. Unplug the power cord from the electrical outlet first.
5. Unplug the connector from the tablet PC.
6. Disconnect the power cord and the connector of AC/DC adapter.
7. When unplugging the power cord, always hold the connector part of the cord. Never pull the cord directly!



## Power On the Tablet PC

To power on the tablet PC, follow the steps below:

1. Connect the AC power to the device first,
2. Find the location of the Power Button as shown in the figure,
3. Press the Power Button to power on the the tablet PC.



## Power Management in Windows OS

Power management of personal computers (PCs) and monitors has the potential to save significant amounts of electricity as well as deliver environmental benefits. To be energy efficient, turn off your display or set your PC to standby/hibernate mode after a period of user inactivity.

Follow the instructions below to adjust the power management settings in Windows OS:

1. Power Options in Windows OS allow you to control the power management features of your display, hard drive, and battery. Go to the Start menu and click on the Control Panel. Click on the System and Security.
2. Then click on the Power Options.
3. Then select a power plan that meets your personal needs
4. The Shut Down Computer menu will present the options to Sleep (S3/S4), Shut Down (S5), or Restart your computer.
5. The computer should be able to wake up from power saving mode in response to a command from the power button.



1



### System and Security

Review your computer's status  
Back up your computer  
Find and fix problems

2



### Power Options

Require a password when the computer wakes | [Change what the power buttons do](#) |  
[Change when the computer sleeps](#)

### Select a power plan

Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings. [Tell me more about power plans](#)

3

Preferred plans

☒ **Balanced (recommended)**

Automatically balances performance with energy consumption on capable hardware.

[Change plan settings](#)☐ Power saver

Saves energy by reducing your computer's performance where possible.

[Change plan settings](#)

Show additional plans



4



## Energy Saving Tips

- Turn off the monitor after a period of user inactivity.
- Tune the settings in Power Options under Windows OS to optimize the computer's power management.
- Always disconnect the AC power cord or uninstall the battery pack or switch off the wall socket if the computer would be left unused for a certain time to achieve zero energy consumption.

## Basic Operations

If you are a beginner to this tablet PC, please read the following instructions to assure your own safety, and make yourself comfortable during the operations.

### Safety and Comfort Tips

This tablet PC is a portable platform that allows you to work anywhere. However, choosing a good workspace is important if you are going to use your tablet PC for a long period of time.

- Your work area should have enough illumination.
- Choose the proper desk and chair and adjust their height to fit your posture when operating.
- Avoid using this tablet PC in the space where may cause you discomfort.
- Since this is an electrical device, please treat it with great care to avoid personal injury.
- The tablet PC should be operate under maximum ambient temperature of 40°C (104°F)

### Having a Good Work Habit

Have a good work habit is important if you are going to use this tablet PC for long periods of time; otherwise, it may cause discomfort or injury to you. Please keep the following tips in mind when operating.

- Change your posture frequently.
- Stretch and exercise you body regularly.
- Remember to take a break after working for a period of time.

## Amusing Features

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### Writing Notes



### Listening Music



## Surfing on the Web



## Viewing Pictures



## Sending and Receiving Mails



## Watching Video



## Rotating the Display

This tablet PC is equipped with G sensor module which gives users an enjoyable experience in viewing web pages, documents, pictures, videos, etc., either in portrait or landscape at they own will at anytime and anyplace. Whenever the display is rotated, the screen will be rotated and expanded to fit the display automatically.

This function can be disabled, if preferred, by long pressing the **Webcam** quick launch button for 3 seconds.



## Using the Quick Launch Buttons

This tablet PC provides several Quick Launch Buttons. Use the quick launch buttons to activate the specific applications or tools.



**Power**

- Press the **Power** button to turn this tablet PC ON and OFF.



**Wireless LAN / 3G**  
(Optional)

- Press this button to turn the **Wireless LAN** or **3G** function on or off recurrently.
- Read the icon on behalf of the **Wireless LAN** or **3G** function appearing on the display to learn the function status.



**Bluetooth**

- Press this button to turn the **Bluetooth** function on or off recurrently.
- Read the icon on behalf of the **Bluetooth** function appearing on the display to learn the function status.



**Webcam**

- Press this button to turn the **Webcam** function on. Press again to turn it off.
- Long press this button for 3 seconds to enable or disable the G-sensor. With this function enabled, whenever the display is rotated, the screen will be rotated and expanded to fit the display automatically.



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- Read the icon on behalf of the Webcam Status appearing on the display to learn the function status.
- 

**Volume Up****Volume Down**

- Press the **Volume Up** or **Volume Down** button to decrease or increase the sound volume.
  - Read the icon on behalf of the Sound Level Status appearing on the display to learn the function status.
- 

**Mute**


- Press the **Mute** button to disable the sound volume. Press again to restore the sound volume to the previous sound level.
  - Press and hold the **Mute** button for 3 seconds to bring up the tag of Windows Security. In this tag, users can lock the device for security concern, if necessary.
  - Read the icon on behalf of the Mute Status appearing on the display to learn the function status.
- 



- This button works the same as the Enter button on the keyboard.
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## Using 3G Function (Optionally Supported)

To use the optional 3G function, follow the steps below:

1. Make sure the tablet PC is powered off, and the AC power is disconnected.
2. Locate the SIM card slot and insert the 3G SIM card carefully.
3. Power on the tablet PC, and turn on the 3G function by pressing the  button.
4. Please read the icon on behalf of the 3G function appearing on the display to make sure whether this function is turned on or off.



## Connecting the External Devices

The I/O (input/output) ports on the tablet PC allow users to connect peripheral devices. All devices listed here are for reference only.

### Connecting the Communication Devices

#### Using Wireless LAN Connection

This tablet PC is equipped with wireless LAN module which allows users to perform fast data transmission with the standard IEEE 802.11 for wireless LAN. This gives users the mobility to move around within a broad coverage area and still be connected to the network.

By using the 64-bit/128-bit Wired Equivalent Privacy (WEP) encryption technology and Wi-Fi Protected Access feature, the optional built-in wireless LAN is capable to achieve a more efficient and a more secure solution to the wireless communication.

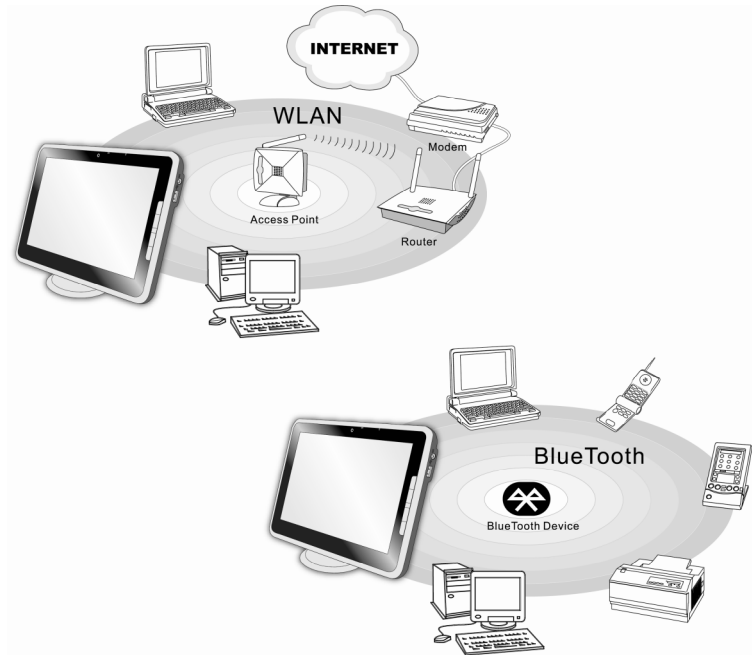
#### Using Bluetooth Connection

This tablet PC is equipped with Bluetooth module which allows users to connect various Bluetooth-enabled devices to the notebook. Bluetooth provides a way to connect and exchange information between devices such as mobile phones, personal computers, printers, GPS receivers, PDAs, digital cameras, and video game consoles through a secure, globally unlicensed Industrial, Scientific and Medical (ISM) 2.4 GHz short-range radio frequency bandwidth.

For more instructions or detailed steps on using the Wireless LAN and Bluetooth functions, please ask your MIS staff or network manager for help.



*The devices shown in the reference figures here may be different from the devices users have.*



## Connecting the Peripheral Devices

### Connecting the USB devices

This tablet PC provides USB ports for connecting various USB devices, such as mouse, keyboard, digital camera, webcam, printer, and external optical storage device, etc.. To connect these devices, install the drivers for each device first if necessary, and then connect the device to the tablet PC. This tablet PC is capable to auto detect the USB devices installed, and if there is no detection of the devices, please manually enable the USB devices by going to **Start Menu / Control Panel / Add Hardware** to add the new device.



**Connecting the External Display Devices to HDMI port**

HDMI (High Definition Multimedia Interface) is a new interface standard for PCs, displays and consumer electronics devices that supports standard, enhanced and high-definition video, plus multi-channel digital audio on a single cable.

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Once the display is connected to the tablet PC, power on the tablet PC and the external display should respond by default..